Click HERE for the Supported IP cameras list for FastTrace 2.
Click HERE for the Supported IP cameras list for FastTrace 2X/2E.

Scope of this document

This document contains 2 lists: one list of supported H.264 IP cameras and H.264 IP video encoders for the ADPRO® FastTrace™ 2 (i.e. the FastTrace 2 units with product numbers starting with 55) and a second list for the supported H.264 IP cameras and H.264 IP video encoders for the ADPRO® FastTrace™ 2X/2E (i.e. the FastTrace 2X/2E units with product numbers starting with 56 and 58).

To support all the IP cameras and IP video encoders listed, a minimum FastTrace 2 series firmware version 2.10.0008 is recommended on FastTrace 2, 2X/2E.

IP Cameras listed in this document have been tested successfully. However, this list is not binding and makes no claim to be complete. However, if you are using IP cameras or video encoders that are not listed in this document, Xtralis cannot guarantee that the cameras will function on the FastTrace 2, 2X/2E unit. We cannot guarantee the correct operation because cameras can show unexpected behaviour with firmware versions not tested by Xtralis.

Important note

IP cameras are expected to perform best at their latest firmware version. Please refer to the manufacturer's website for full details on the latest available firmware. In the exceptional case that new camera firmware would not be backwards compatible with its previous version(s) as originally tested with FastTrace 2, 2X/2E, this may affect FastTrace 2, 2X/2E operation. In these circumstances Xtralis will make the best effort possible to correct the situation in a reasonable amount of time.

Performance note

IP cameras tend to generate bitrates that can go up to 4-5 Mbps per camera, especially for Full HD or Megapixel cameras. Depending on brand and type the IP cameras can handle 2 or 3 streams; specifically and even key differentiator to traditional DVR's/NVR's, the FastTrace 2, 2X/2E units use multiple streams per camera to be able to manage live view, recording, transmission and analytics in one box.

Knowing that any network connected device has its limits concerning bandwidth, disk access, throughput, storage capacity, number of streams, … please notice following fist rules for the FastTrace 2 and the FastTrace 2X/2E.

- FastTrace 2: up to 16 X 1.3 MegaPixel IP cameras @ 25 fps + max 4 analytic channels
  (Obtained by Xtralis in house testing using 16 X Axis M1054 IP camera@25 fps with FastTrace 2 - 55501100 Model)
- FastTrace 2X/2E: up to 20 X 5.1 MegaPixel IP cameras @ 10 fps + max 20 analytic channels
  (Obtained by Xtralis in house testing using 20 X Axis P1357 IP camera@10 fps with FastTrace 2E - 58051540 Model)

Remark:
H.264 decoding is extremely sensitive to bandwidth use fluctuations related to camera view scenario and image content activity. Even changing IP camera brand will result in bandwidth use differences and influence the FastTrace 2, 2X/2E performance behaviour.

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FastTrace 2, 2X/2E Management of the IP Video Streams

Type of video stream behaviour	Number of independent camera streams	Setting continuous recording	Setting event recording	Live stream
A	1	Settings continuous recording, event recording and live stream are equal. No analytics stream available.**		
B	2 (standard for non-tested cameras)	= analytics stream*	Programmable	Setting of event recording or analytics stream*
C	2	Programmable	Programmable	Setting of continuous recording or event recording**
D	3	Programmable	Programmable	Setting of continuous recording or event recording or analytics stream*
E	4	Programmable	Programmable	Programmable

* Analytics stream: CIF resolution (or the next available higher resolution that is lower than CIF), 5 fps and Q = ± 50. This stream is used for motion detection, sabotage detection, post motion detection, loitering detection, outdoor perimeter detection, local video output and generating quad pictures.

** No analytics stream available. As a consequence no motion detection, sabotage detection, post motion detection, loitering detection, outdoor perimeter detection, local video output and generating quad pictures available. Such camera is not recommended for Video Central Platinum or EMS.

SUPPORTED IP CAMERAS FOR FASTTRACE 2X/2E

INTEGRATED IP CAMERAS

The following cameras have been tested and approved for use with the FastTrace 2X/2E units.

Legend

Abbreviation	Meaning
SD	Standard definition
HD	High definition
NA	Not available
NOK	Not okay, cannot be used on FastTrace 2X/2E unit
NT	Not tested

IP Camera Default Settings

- Camera IP address should be set by web browsing into the camera. Avoid using included or downloaded (manufacturers') IP camera setup tools.
- Make sure all camera settings are left at default, apart from changing the IP address, unless the Generic Driver is used.

IP Camera Manufacturers

Click the manufacturer to go to the supported IP cameras from that manufacturer:

- ACTI
- Arecont
- Avigilon
- Axis
- Bosch
- Brickcom
- Hikvision
- JVC
- Panasonic
- Pelco
- Samsung
- Sanyo
- Sony

- Generic Driver

ACTI

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
TCM 1231	HD	2	B	Audio In	1x I 1x O	NA	2.10.8	4.9.18
TCM 3511	HD	2	B	Audio In	1x I 1x O	NA	2.10.8	4.9.18
TCM 4101	SD	2	B	Audio In	NA	NA	2.10.8	4.9.18
TCM 4301	HD	2	B	Audio In	NA	NA	2.10.8	4.9.18
TCM 5311	HD	2	B	Audio In	1x I 1x O	NA	2.10.8	4.9.18
TCM 5611	HD	2	B	Audio In	1x I 1x O	NA	2.10.8	4.9.18
TCM 6630	SD	2	B	Y	1x I 1x O	Y	2.10.8	4.9.18
TCM 7411	HD	2	B	Audio In	1x I 1x O	NA	2.10.8	4.9.18
TCD 2500	SD	2	B	Audio In	1x I 1x O	NA	2.10.8	4.9.18
E83[1]	HD 5 MP	2	B	NA	NA	NA	2.10.8	NA
E53[1]	HD 5 MP	2	B	NA	NA	NA	2.10.8	NA
E54	HD 5 MP	2	B	NA	NA	NA	2.11.23	6.5.23

Important notes:

- Maximum usable framerate: 15 fps.
- Do not use B2 frames.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

[1] This camera model has not officially been tested by Xtralis, but was implemented in a specific project.

Arecont

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
3105	HD	2	C	NA	NA	NA	2.10.8	NA
8185	HD	1	A	NA	NA	NA	2.10.8	NA

Important notes:

- The Arecont 8185 camera uses 4 IP video channels on the FastTrace 2X/2E.
- No analytics stream available (see FastTrace 2, 2X/2E Management of the IP Video Streams).
- Non-tested camera models may not work at all.

Avigilon

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
2.0MP-HD-H264-D1	HD	2	B	NOK	1x O	NA	2.10.8	2.0.4.16
2.0MP-H3-B2	HD	2	B	NOK	1x O	NA	2.10.8	2.4.10.4
2.0W-H3-B01-IR	HD	2	B	Audio In	1x O	NA	2.11.23	2.6.0.14

Important notes:

- Highest resolution 1920 x 1080 cannot be selected.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Axis

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
M1011	SD	2	B	NA	NA	NA	2.10.8	NA
M1011-W	SD	2	B	NA	NA	NA	2.10.8	NA
M1031-W	SD	2	B	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	NA
M1054	HD 1MP 720p	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	NA
M1114/-E	HD 1MP 720p	3	D	NA	NA	NA	2.11.23	5.50.3
M1143-L	SD	3	D	NA	NT	NA	2.10.8	5.40.10
M3004	HD 1MP 720p	3	D	NA	NA	NA	2.10.8	5.40.5
M3005/-V	HD 2MP 1080p	3	D	NA	NA	NA	2.10.8	5.40.5
M3006	HD 3MP 1080p	3	D	NA	1x I 1x O	NA	2.10.8	5.40.15
M3011	SD	2	B	NA	NA	NA	2.10.8	NA
M3014	HD 1MP	2	B	NA	NA	NA	2.10.8	NA
M3025	HD 2MP 1080p	3	D	NA	1x I 1x O	NA	2.10.8	5.40.5
M3114-R	HD 1MP 720p	2	B	NA	NA	NA	2.10.8	5.21
M3204	HD 1MP 720p	3	D	NA	NA	NA	2.10.8	5.12.1
M5014	HD 1MP 720p	3	D	NA	NA	Y only for setting	2.10.8	5.25.2
P1204	HD 1MP 720p	3	D	NA	NT	NA	2.10.8	5.40.12
P1311	SD	3	D	Audio In	1x I 1x O	NA	2.10.8	NA
P1343	SD	3	D	Audio In	1x I 1x O	NA	2.10.8	NA
P1344	HD 1MP 720p	3	D	Audio In	1x I 1x O	NA	2.10.8	NA
P1346	HD 3MP 1080p	3	D	Audio In	1x I 1x O	NA	2.10.8	5.40.9
P1347	HD 5MP	2	B	Audio In	1x I 1x O	NA	2.10.8	5.40.9
P1353	SD	2	B	Built-in mic *or* audio	1x I 1x O	NA	2.10.8	5.40.19.1[2]

[2] Image may NOT be rotated or mirrored when defining privacy mask.

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
				input				
P1354	HD 1MP 720p	3	D	Audio In	1x I 1x O	NA	2.10.8	5.40.18
P1357	HD 5MP	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	5.40.19
P3301/-V	SD	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	NA
P3304	HD 1MP 720p	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	5.40.9
P3343/-V	SD	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	NA
P3343-VE	SD	3	D	Audio In	1x I 1x O	NA	2.10.8	NA
P3344/-V	HD 1MP 720p	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	NA
P3344-VE	HD 1MP 720p	3	D	Audio In	1x I 1x O	NA	2.10.8	NA
P3354	HD 1MP 720p	3	D	NA	NA	NA	2.11.23	5.40.17
P3346	HD 3MP	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	5.40.9
P3364-L	HD 1MP 720p	3	D	Built-in mic *or* audio input	NT	NA	2.10.8	5.40.10
P3367/-V/-VE	HD 5MP	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	5.40.3
P3384	HD 1MP 720p	3	D	Built-in mic *or* audio input	NT	NA	2.10.8	5.40.11
P5414-E	HD 1MP 720p	3	D	NT	4 I or O	Y	2.11.23	5.55.1
P5512	SD	3	D	NT	NT	Y	2.10.8	5.25
P5522/-E	SD	3	D	NT	NT	Y	2.10.8	5.25.1
P5532/E	SD	3	D	NT	NT	Y	2.10.8	5.20.1
P5534/-E	HD 1MP 720p	2	B	NT	4 I or O	Y	2.10.8	5.15.1

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
Q1602	SD	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	5.40.3
Q1604	HD 1MP 720p	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.10.8	5.40.3
Q1614	HD 1MP 720p	3	D	Built-in mic *or* audio input	2 I or O	NA	2.11.23	5.55.1
Q1755	HD 2MP 1080i	3	D	Built-in mic *or* audio input	1x I 1x O	only zoom	2.10.8	NA
Q1765	HD 2MP 1080p	3	D	NT	2 I or O	only zoom	2.11.23	5.55.1
Q1921/-E Thermal	SD	2	B	Built-in mic *or* audio input	2 I or O	NA	2.10.8	NA
Q6032-E	SD	3	D	NA	NA	Y	2.10.8	NA
Q6035-E	HD 2MP 1080p	2	B	NT	NT	Y	2.10.8	5.25
G6044-E	HD 1MP 720p	3	D	NA	NA	Y	2.11.23	5.55.1
Q7401 Video Encoder	SD	3	D	Audio In	4 I or O	Y	2.10.8	NA
Q7404 Video Encoder	SD	3	D	Audio Input	2 I or O	NA	2.10.8	5.20.1
Q7411 Video Encoder	SD	3	D	Audio Input	Min 2, max 4 inputs; Min 0, max 2 outputs	NA	2.10.8	5.40.13.2

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Bosch

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
IXS0	SD	2	B	NOK	NOK	NA	2.10.8	1.6.13.9080 A1.4657
Dinion HD 1080p IVA	HD 1080P	2	B	Line in	OK	NA	2.10.8	5.70.43
Flexidome NDN-498-P	SD	2	B	NT	OK	NA	2.10.8	5.70.43
Flexidome NDN-921-P	HD 720P	2	B	NT	OK	NA	2.10.8	5.70.43
NDC 225 P	SD	2	B	Line in	OK	NA	2.10.8	5.70.43
Autodome 800 HD Series	HD 1080P (max res. 1280x720, 15fps)	2	B	NT	OK	Y (Focus & Iris NA)	2.10.8	5.70.43
Flexidome HD 1080P	HD 1080P	2	B	NT	1x I 1x O	NA	2.10.8	5.80.73
Autodome 7000HD	HD 1080P	2	B	NT	1x I 1x O	Y (Focus & Iris NA)	2.10.8	5.80.73
NTC-265-PI	HD 720P	2	B	NOK	1x I 1x O	NA	2.11.23	5.72.28
Dinion HD 720 IVA	HD 720P	2	B	NA	NA	NA	2.11.23	NA

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Brickcom

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
CB-100Ae-08	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
CB-102Ap	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
FB-131Ap-71	HD 1,3 MP	2	B	NA	NA	NA	2.10.8	3.1
FD-100Ap-73-M	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
MD-100Ap-00	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
OB-100Ap-73	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1
OSD-040E-36X up to 25ips	SD	2	B	NA	NA	Y	2.10.8	3.1
VD-100Ap-73	HD 1 MP	2	B	NA	NA	NA	2.10.8	3.1

Important notes:

- XX-YYYAp-ZZZ: professional model = up to 30 ips.
- XX-YYYAe-ZZZ: economy model = up to 15 ips.
- Camera configuration: some Brickcom camera types have VMS configuration settings:
  - disable WS security for these camera types.
  - ONVIF 1.0 (default) / 2.0: both are possible, but 1.0 is recommended.
  - Synch (default) / Asynch: Sync is recommended.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Hikvision

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
DS-2CD833F-E	SD	2	B	NOK	1x I 1x O	NA	2.10.8	4.0.3 121126 [3][4]
DS-2CD883F-E	HD 5 MP	2	B	NOK	1x I 1x O	NA	2.10.8	4.0.3 121126 [3][4]
DS-2CD2012-I	HD 1,3 MP	2	B	NA	NA	NA	2.10.8	4.0.8 121109 [5]
DS-2CD2032-I	HD 3 MP	2	B	NA	NA	NA	2.10.8	4.0.9 130106 [6]
DS-2CD7153-E	HD 2 MP	2	B	NA	NA	NA	2.10.8	4.0.3 121126 [3][4]
DS-2CD8153F-E	HD 2 MP	2	B	NOK	NA	NA	2.10.8	5.0.8 130930 [7]
DS-2CD762MF-IFB	HD 1,3 MP	2	B	NOK	NA	NA	2.10.8	2.0.121 114
DS-2DF1-512	SD	2	B	NOK	2x I 2x O	Y	2.10.8	3.1.6 130322 [8]

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.
- Added support for Hikvision firmware Version 5;

[3] Encoding version: 4.0 build 120918.

[4] Do not upgrade the camera firmware as newer firmware doesn't support the same interface as used by FastTrace 2.

[5] Encoding version: V4.0 build 121019.

[6] Encoding version: V4.0 build 121228.

[7] Encoding version: V4.0 build 130701.

[8] Encoding version: V4.0 build 101018.

JVC

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
VN-T16U	HD 1080p	2	B	NOK	NOK	NA	2.10.8	2.2.22.32
VN-H57U	HD 1080p	2	B	Ext. mic	2 x I 2 x O	NA	2.10.8	4.05.013
VN-H157WPU	HD 1080p	2	B	Ext. mic	2 x I 2 x O	NA	2.11.23	4.05.013
VN-H37U	HD 1080p	2	B	NA	NA	NA	2.11.23	NA
VN-H657U/ WPU	HD 1080p	2	B	NA	2 x I 2 x O	Y	2.11.23	2.0.801 spl2841
VN-H557U	HD 1080p	2	B	Ext. mic	2 x I 2 x O	Y	2.11.23	1.0.524 spl2971
VN-T216 VPRU	HD 1080p	2	B	NA	NOK	NA	2.11.23	j.2.2.2232

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.
- No support for brightness/contrast/saturation

Panasonic

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
WV-NW502S	HD 1,3 MP	2	B	Audio In	External I/O	NA	2.10.8	1.32
WV-SP105	HD 1,3 MP	2	B	NA	NA	NA	2.11.23	1.03
WV-SW355E	HD 1,3 MP	2	B	Audio In	External I/O	NA	2.10.8	1.07
WV-SW395	HD 1,3 MP	2	B	Audio In	External I/O	Y	2.10.8	1.07
WV-SW316L	HD 1,3 MP	2	B	Audio In	NT	NA	2.10.8	1.49
WV-SW559	HD 1,3 MP	2	B	NT	NT	NA	2.10.8	NA
WV-SW598	HD 1080p	2	B	NA	3x I	Y	2.11.23	1.09

Important notes:

- Compared to similar IP cameras Panasonic uses significantly higher bandwidth.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Pelco

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
IXS0	SD	2	B	NOK	NOK	NA	2.10.8	1.6.13.9080 A1.4657
IX10	HD 1,3MP	2	B	NOK	NOK	NA	2.10.8	
IXE20	HD 2,1MP (max res. 1600x1200)	2	B	NOK	NOK	NA	2.10.8	1.7.8.9081 A1.5288
IX30	HD 3,1MP (max res. 1600x1200)	2	B	NOK	NOK	NA	2.10.8	1.7.19.9080 A1.5842
D5118-FW1	HD 1,3MP (max res. 1280x960)	2	B	NOK	NOK	NA	2.10.8	NA
TI314-X Thermal	384 x 288	2	B	NOK	NOK	NA	2.10.8	1.8.2.18 - 20121109 - 1.9441-O4.8503

Important notes:

- Highest resolution cannot be selected.
- Pelco does not report a detailed cam type to FastTrace 2X/2E.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Samsung

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
SNB-1000	SD	3	D	Audio In	1x I 1x O	NA	2.10.8	NA
SNB-5000	HD	3	D	Audio In	1x I 1x O	NA	2.10.8	V3.01
SNB-5004	HD	3	D	Audio In	1x I 1x O	NA	2.11.23	1.13_131218
SNP-3120	SD	3	D	Audio In	1x I 1x O	Y	2.10.8	NA
SNV-3120	SD	3	D	Audio In	1x I 1x O	Y	2.10.8	NA
SNV-5080P	HD	3	D	NOK	NOK	NA	2.10.8	2.10_111227 (ISP 2.66)
SNV-5080R	HD	3	D	NOK	NOK	NA	2.10.8	NA
SPE-100 Video Encoder	SD	3	D	Audio In	1x I 1x O	Y	2.10.8	NA
SND-5061	HD	3	D	NA	NOK	NA	2.11.23	1.21_131002
SNF-7010	HD	3	D	Audio In	NA	NA	2.11.23	1.00_130806

Important notes:

- The I-frame distance varies from 0.5 second to 4 seconds, depending on the framerate. I-frame distances <4 seconds can increase the bandwidth and disk usage.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Sanyo

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
VCC-HD3500P	HD	3	D	Audio In	1x I 1x O	NA	2.10.8	NA
VCC-HD4600P	HD	3	D	Audio In	1x I 1x O	NA	2.10.8	NA
VCC-HD5400P	HD	3	D	Audio In	1x I 1x O	Y	2.10.8	NA
VCC-HD2500P	HD (1080P)	3	D	Audio In Ext. mic (NT)	2x I 2x O (NT)	NA	2.10.8	NA
VCC-HD5600P	HD (1080P)	3	D	Audio In Ext. mic (NT)	4x I 2x O 8x I 2x O (NT)	Y NT	2.10.8	NA

Important notes:

- Only double chip cameras will be supported. These are the models 2500, 3500, 4600, 5400 and 5600.
- The one chip models will not be supported: 2100, 2300, 3100 and 3300.
- Maximum usable resolution is 1280 x 720.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Sony

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2X/2E FW version	Cam FW
SNC-CH110	HD 720P	2	B	Audio In	NA	NA	2.10.8	1.78.00
SNC-CH120	HD 720P	2	B	Audio In	1x I 1x O	NA	2.10.8	NA
SNC-CH140	HD 720P	2	B	Audio In	1x I 1x O	NA	2.10.8	NA
SNC-CH160	HD 720P	2	B	Audio In Ext. mic	1x I 1x O	NA	2.10.8	NA
SNC-CH180	HD 720P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.10.8	NA
SNC-CH220	HD 1080P	2	B	NA	1x I 1x O	NA	2.10.8	1.80.00
SNC-CH240	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.10.8	NA
SNC-CH260	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.10.8	NA
SNC-CH280	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.10.8	NA
SNC-DH110T	HD 720P	2	B	Audio In Ext. mic (NT)	1x I 2x O (NT)	NA	2.10.8	1.78.00
SNC-DH140	HD 720P	2	B	Audio In Ext. mic (NT)	1x I 2x O (NT)	NA	2.10.8	NA
SNC-DH160	HD 720P	2	B	Audio In	1x I 1x O	Y	2.10.8	NA
SNC-DH180	SD	2	B	Audio In	1x I 1x O	NA	2.10.8	NA
SNC-DH240	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.10.8	NA
SNC-DH260	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.10.8	NA
SNC-RH124 SNC-RH164	HD	2	B	Audio In	1x I 1x O	Y	2.10.8	NA
SNC-RS 44/46/N/P N=NTSC; P=PAL	SD	2	B	Audio In Ext. mic	4x I 2x O	Y	2.10.8	NA
SNC-RS 84/86/N/P N=NTSC; P=PAL	SD	2	B	Audio In Ext. mic	4x I 2x O	Y	2.10.8	NA
SNC-VB600B	HD 720P	2	B	NOK	NOK	NA	2.10.8	1.5.1
SNC-VB630	HD 1080P	2	B	NOK	NOK	NA	2.10.8	1.5.1
SNC-EM600	HD 720P	2	B	NA	NA	NA	2.11.23	1.12.0
SNC-WR600	HD 720P	2	B	NA	4x I 2x O	Y	2.11.23	NA

Important notes:

- Non-tested camera models may result default resolution selections (as Sony doesn't return the supported resolutions) and will have the restriction of maximum 2 streams.
- Support for on-board analytics(DEPA) for 5th generation camera models.
- For SNC-CH110/CH220: if 4:3 resolutions are required, make sure the camera is set accordingly; and also likewise for 16:9 resolutions. The 2 streams must also stream with the same aspect ratio!
- Privacy masking has been disable from FT2version 2.11.12
- For SNC-CH180: resolution 1280x720 is not supported.

Generic Driver url's

- **Arecont AV20365DN** :
  4 possible streams, only 1 at a time, entered as url2 (**NO analytics**), 5MP was not possible to stream.
  rtsp://ip/h264.sdp1?x0=0&x1=2560&y0=0&y1=1920&res=full&fps=5&bitrate=1024&qp=25&ssn=20
  rtsp://ip/h264.sdp4?x0=0&x1=2560&y0=0&y1=1920&res=full&fps=5&bitrate=1024&qp=25&ssn=25
  rtsp://ip/h264.sdp2?x0=0&x1=2560&y0=0&y1=1920&res=full&fps=5&bitrate=1024&qp=25&ssn=30
  rtsp://ip/h264.sdp3?x0=0&x1=2560&y0=0&y1=1920&res=full&fps=5&bitrate=1024&qp=25&ssn=35
- **Axis 7001 encoder** :
  only 1 stream possible, entered as url2 (**NO analytics**) :
  rtsp://ip:554/axis-media/media.amp?videocodec=h264&compression=50&fps=15&videokey frameinteval=60&resolution=4CIF&audio=0
- **DRS Watchmaster IP Elite 3000 (thermal)** :
  1 stream only!
  rtsp://ip:554/2?videoCodecType=H.264
- **Flir FC 324-S :**
  2 urls, for analytics and event recording :
  default loginname : 'admin', default password : '9999'default loginname : 'admin', default password : 'fliradmin'.
  rtsp://ip:554/ch0
  rtsp://ip:554/ch1
  remark.: 'ch0' and 'ch1', are to be defined in the camera, in the same menu as the image size, but with label 'Stream Name'.
- **LG LNP3020T** :
  this is a ptz camera, only streaming possible
  url1 (low res) : rtsp://ip:554/Slave-0
  url2 (high res) : rtsp://ip:554/Master-0
- **Norbain / Vista VK2** :
  url 1 : rtsp://a.b.c.d:554/1/stream1
  url 2 : rtsp://a.b.c.d:554/1/stream3
  This camera has a 2 second interval for I-frames hence a high bitrate
- **Santec SNC-8322HO** :
  4 possible streams, but lowest framerate is 13fps, so not usable for analytics.
  default loginname : 'admin', default password : '9999'
  rtsp://ip:554/h264
  rtsp://ip:554/h264_2
  rtsp://ip:554/h264_3
  rtsp://ip:554/h264_4
- **Visicom 3S Vision DNMP6031IR** :
  default loginname : 'root', password : 'root'
  url1 (low res, analytics): rtsp://ip:554/cam1/h264-1
  url2 (high res, recording) : rtsp://ip:554/cam1/h264
- **Visicom 3S Vision NWS-4071 encoder (4channel)** :
  default loginname : 'root', password : 'root'
  url1 (low res, analytics): rtsp://ip:554/cam1/h264-1
  url2 (high res, recording) : rtsp://ip:554/cam1/h264
  these url's are for channel1, for the other channels, replace cam1 with cam2,cam3 or cam4.

SUPPORTED IP CAMERAS FOR FASTTRACE 2

INTEGRATED IP CAMERAS

The following cameras have been tested and approved for use with the FastTrace 2 units.

Legend

Abbreviation	Meaning
SD	Standard definition
HD	High definition
NA	Not available
NOK	Not okay, cannot be used on FastTrace 2 unit
NT	Not tested

IP Camera Default Settings

- Camera IP address should be set by web browsing into the camera. Avoid using included or downloaded (manufacturers') IP camera setup tools.
- Make sure all camera settings are left at default, apart from changing the IP address.

Camera Manufacturers

Click the manufacturer to go to the supported IP cameras from that manufacturer:

- ACTI
- Arecont
- Avigilon
- Axis
- Bosch
- Brickcom
- Panasonic
- Pelco
- Samsung
- Sanyo
- Sony

ACTI

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
TCM 1231	HD	2	B	Audio In	1x I 1x O	NA	2.3.140	4.9.18
TCM 3511	HD	2	B	Audio In	1x I 1x O	NA	2.3.140	4.9.18
TCM 4101	SD	2	B	Audio In	NA	NA	2.3.140	4.9.18
TCM 4301	HD	2	B	Audio In	NA	NA	2.3.140	4.9.18
TCM 5311	HD	2	B	Audio In	1x I 1x O	NA	2.3.140	4.9.18
TCM 5611	HD	2	B	Audio In	1x I 1x O	NA	2.3.140	4.9.18
TCM 6630	SD	2	B	Y	1x I 1x O	Y	2.3.140	4.9.18
TCM 7411	HD	2	B	Audio In	1x I 1x O	NA	2.3.140	4.9.18
TCD 2500	SD	2	B	Audio In	1x I 1x O	NA	2.3.140	4.9.18

Important notes:

- Maximum usable framerate: 15 fps.
- Do not use B2 frames.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Arecont

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
3105	HD	2	C	NA	NA	NA	2.3.140	NA
8185	HD	1	A	NA	NA	NA	2.3.140	NA

Important notes:

- The Arecont 8185 camera uses 4 IP video channels on the FastTrace 2.
- No analytics stream available (see FastTrace 2, 2X/2E Management of the IP Video Streams).
- Non-tested camera models may not work at all.

Avigilon

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
2.0MP-HD-H264-D1	HD	2	B	NOK	1x O	NA	2.6.20	2.0.4.16
2.0MP-H3-B2	HD	2	B	NOK	1x O	NA	2.9.5	2.4.10.4

Important notes:

- Highest resolution 1920 x 1080 cannot be selected.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Axis

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
M1011	SD	2	B	NA	NA	NA	2.3.140	NA
M1011-W	SD	2	B	NA	NA	NA	2.3.140	NA
M1031-W	SD	2	B	Built-in mic *or* audio input	1x I 1x O	NA	2.3.140	NA
M1054	HD 1MP 720p	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.3.140	NA
M1143-L	SD	3	D	NA	NT	NA	2.6.42	5.40.10
M3004	HD 1MP 720p	3	D	NA	NA	NA	2.6.42	5.40.5
M3005/-V	HD 2MP 1080p	3	D	NA	NA	NA	2.6.33	5.40.5
M3006	HD 3MP 1080p	3	D	NA	1x I 1x O	NA	2.6.33	5.40.15
M3011	SD	2	B	NA	NA	NA	2.3.140	NA
M3014	HD 1MP	2	B	NA	NA	NA	2.3.140	NA
M3025	HD 2MP 1080p	3	D	NA	1x I 1x O	NA	2.9.5	5.40.5
M3114-R	HD 1MP 720p	2	B	NA	NA	NA	2.3.140	5.21
M3204	HD 1MP 720p	3	D	NA	NA	NA	2.3.140	5.12.1
M5014	HD 1MP 720p	3	D	NA	NA	Y only for setting	2.3.140	5.25.2
P1204	HD 1MP 720p	3	D	NA	NT	NA	2.6.20	5.40.12
P1311	SD	3	D	Audio In	1x I 1x O	NA	2.3.140	NA
P1343	SD	3	D	Audio In	1x I 1x O	NA	2.6.20	NA
P1344	HD 1MP 720p	3	D	Audio In	1x I 1x O	NA	2.3.140	NA
P1346	HD 3MP 1080p	3	D	Audio In	1x I 1x O	NA	2.6.20	5.40.9
P1347	HD 5MP	2	B	Audio In	1x I 1x O	NA	2.3.140	5.40.9
P1354	HD 1MP 720p	3	D	Audio In	1x I 1x O	NA	2.6.33	5.40.18
P1357	HD 5MP	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.9.5	5.40.19
P3301/-V	SD	3	D	Built-in	1x I	NA	2.3.140	NA

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
				mic *or* audio input	1x O			
P3304	HD 1MP 720p	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.6.42	5.40.9
P3343/-V	SD	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.3.140	NA
P3343-VE	SD	3	D	Audio In	1x I 1x O	NA	2.3.140	NA
P3344/-V	HD 1MP 720p	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.3.140	NA
P3344-VE	HD 1MP 720p	3	D	Audio In	1x I 1x O	NA	2.3.140	NA
P3346	HD 3MP	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.3.140	5.40.9
P3364-L	HD 1MP 720p	3	D	Built-in mic *or* audio input	NT	NA	2.6.42	5.40.10
P3367/-V/-VE	HD 5MP	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.3.140	5.40.3
P3384	HD 1MP 720p	3	D	Built-in mic *or* audio input	NT	NA	2.6.42	5.40.11
P5512	SD	3	D	NT	NT	Y	2.3.140	5.25
P5522/-E	SD	3	D	NT	NT	Y	2.6.20	5.25.1
P5532/E	SD	3	D	NT	NT	Y	2.9.5	5.20.1
P5534/-E	HD 1MP 720p	2	B	NT	4 I or O	Y	2.6.20	5.15.1
Q1602	SD	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.3.140	5.40.3
Q1604	HD 1MP 720p	3	D	Built-in mic *or* audio input	1x I 1x O	NA	2.3.140	5.40.3
Q1755	HD 2MP 1080i	3	D	Built-in mic *or* audio input	1x I 1x O	only zoom	2.3.140	NA

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
Q1921/-E Thermal	SD	2	B	Built-in mic *or* audio input	2 I or O	NA	2.3.140	NA
Q6032-E	SD	3	D	NA	NA	Y	2.3.140	NA
Q6035-E	HD 2MP 1080p	2	B	NT	NT	Y	2.3.140	5.25
Q7401 Video Encoder	SD	3	D	Audio In	4 I or O	Y	2.10.8	NA
Q7404 Video Encoder	SD	3	D	Audio Input	2 I or O	NA	2.9.5	5.20.1
Q7411 Video Encoder	SD	3	D	Audio Input	Min 2, max 4 inputs; Min 0, max 2 outputs	NA	2.9.5	5.40.13.2

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Bosch

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
IXS0	SD	2	B	NOK	NOK	NA	2.6.40	1.6.13.9080 A1.4657
Dinion HD 1080p IVA	HD 1080P	2	B	Line in	OK	NA	2.6.40	5.70.43
Flexidome NDN-498-P	SD	2	B	NT	OK	NA	2.6.40	5.70.43
Flexidome NDN-921-P	HD 720P	2	B	NT	OK	NA	2.6.40	5.70.43
NDC 225 P	SD	2	B	Line in	OK	NA	2.6.40	5.70.43
Autodome 800 HD Series	HD 1080P (max res. 1280x720, 15fps)	2	B	NT	OK	Y (Focus & Iris NA)	2.6.40	5.70.43
Flexidome HD 1080P	HD 1080P	2	B	NT	1x I 1x O	NA	2.9.5	5.80.73
Autodome 7000HD	SD	2	B	NT	1x I 1x O	Y (Focus & Iris NA)	2.9.5	5.80.73

Important notes:

- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Brickcom

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
CB-100Ae-08	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
CB-102Ap	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
FB-131Ap-71	HD 1,3 MP	2	B	NA	NA	NA	2.3.140	3.1
FD-100Ap-73-M	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
MD-100Ap-00	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
OB-100Ap-73	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1
OSD-040E-36X up to 25ips	SD	2	B	NA	NA	Y	2.3.140	3.1
VD-100Ap-73	HD 1 MP	2	B	NA	NA	NA	2.3.140	3.1

Important notes:

- XX-YYYAp-ZZZ: professional model = up to 30 ips.
- XX-YYYAe-ZZZ: economy model = up to 15 ips.
- Camera configuration: some Brickcom camera types have VMS configuration settings:
  - disable WS security for these camera types.
  - ONVIF 1.0 (default) / 2.0: both are possible, but 1.0 is recommended.
  - Synch (default) / Asynch: Sync is recommended.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Panasonic

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
WV-NW502S	HD 1,3 MP	2	B	Audio In	External I/O	NA	2.3.140	1.32
WV-SW355E	HD 1,3 MP	2	B	Audio In	External I/O	NA	2.3.140	1.07
WV-SW395	HD 1,3 MP	2	B	Audio In	External I/O	Y	2.3.140	1.07
WV-SW316L	HD 1,3 MP	2	B	Audio In	NT	NA	2.6.20	1.49
WV-SW559	HD 1,3 MP	2	B	NT	NT	NA	2.6.20	NA

Important notes:

- Compared to similar IP cameras Panasonic uses significantly higher bandwidth.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Pelco

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
IXS0	SD	2	B	NOK	NOK	NA	2.3.140	1.6.13.9080 A1.4657
IX10	HD 1,3MP	2	B	NOK	NOK	NA	2.3.140	
IXE20	HD 2,1MP (max res. 1600x 1200)	2	B	NOK	NOK	NA	2.3.140	1.7.8.9081 A1.5288
IX30	HD 3,1MP (max res. 1600x 1200)	2	B	NOK	NOK	NA	2.3.140	1.7.19.9080 A1.5842
D5118-FW1	HD 1,3MP (max res. 1280x960)	2	B	NOK	NOK	NA	2.3.140	NA
TI314-X Thermal	384 x 288	2	B	NOK	NOK	NA	2.9.5	1.8.2.18 - 20121109 - 1.9441-O4.8503

Important notes:

- Highest resolution cannot be selected.
- Pelco does not report a detailed cam type to FastTrace 2.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Samsung

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
SNB-1000	SD	3	D	Audio In	1x I 1x O	NA	2.3.140	NA
SNB-5000	HD	3	D	Audio In	1x I 1x O	NA	2.3.140	V3.01
SNP-3120	SD	3	D	Audio In	1x I 1x O	Y	2.3.140	NA
SNV-3120	SD	3	D	Audio In	1x I 1x O	Y	2.3.140	NA
SNV-5080P	HD	3	D	NOK	NOK	NA	2.9.5	2.10_111227 (ISP 2.66)
SNV-5080R	HD	3	D	NOK	NOK	NA	2.3.140	NA
SPE-100 Video Encoder	SD	3	D	Audio In	1x I 1x O	Y	2.3.140	NA

Important notes:

- The I-frame distance varies from 0.5 second to 4 seconds, depending on the framerate. I-frame distances <4 seconds can increase the bandwidth and disk usage.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Sanyo

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
VCC-HD3500P	HD	3	D	Audio In	1x I 1x O	NA	2.3.140	NA
VCC-HD4600P	HD	3	D	Audio In	1x I 1x O	NA	2.3.140	NA
VCC-HD5400P	HD	3	D	Audio In	1x I 1x O	Y	2.3.140	NA
VCC-HD2500P	HD (1080P)	3	D	Audio In Ext. mic (NT)	2x I 2x O (NT)	NA	2.3.140	NA
VCC-HD5600P	HD (1080P)	3	D	Audio In Ext. mic (NT)	4x I 2x O 8x I 2x O (NT)	Y NT	2.3.140	NA

Important notes:

- Only double chip cameras will be supported. These are the models 2500, 3500, 4600, 5400 and 5600.
- The one chip models will not be supported: 2100, 2300, 3100 and 3300.
- Maximum usable resolution is 1280 x 720.
- Non-tested camera models may result in some features not functioning and will have the restriction of maximum 2 streams.

Sony

Type	Resolution	# of video streams	Video stream behaviour (see table on page 3)	Audio in	I/O	PTZ	FT 2 FW version	Cam FW
SNC-CH110	HD 720P	2	B	Audio In	NA	NA	2.9.5	1.78.00
SNC-CH120	HD 720P	2	B	Audio In	1x I 1x O	NA	2.3.140	NA
SNC-CH140	HD 720P	2	B	Audio In	1x I 1x O	NA	2.3.140	NA
SNC-CH160	HD 720P	2	B	Audio In Ext. mic	1x I 1x O	NA	2.3.140	NA
SNC-CH180	HD 720P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.3.140	NA
SNC-CH240	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.3.140	NA
SNC-CH260	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.3.140	NA
SNC-CH280	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.3.140	NA
SNC-DH110T	HD 720P	2	B	Audio In Ext. mic (NT)	1x I 2x O (NT)	NA	2.9.5	1.78.00
SNC-DH140	HD 720P	2	B	Audio In Ext. mic (NT)	1x I 2x O (NT)	NA	2.3.140	NA
SNC-DH160	HD 720P	2	B	Audio In	1x I 1x O	Y	2.3.140	NA
SNC-DH180	HD 720P	2	B	Audio In	1x I 1x O	NA	2.3.140	NA
SNC-DH240	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.3.140	NA
SNC-DH260	HD 1080P	2	B	Audio In Ext. mic	1x I 2x O	NA	2.3.140	NA
SNC-RH124 SNC-RH164	HD	2	B	Audio In	1x I 1x O	Y	2.3.140	NA
SNC-RS 44/46/N/P N=NTSC; P=PAL	SD	2	B	Audio In Ext. mic	4x I 2x O	Y	2.3.140	NA
SNC-RS 84/86/N/P N=NTSC; P=PAL	SD	2	B	Audio In Ext. mic	4x I 2x O	Y	2.3.140	NA

Important notes:

- Non-tested camera models may result default resolution selections (as Sony doesn't return the supported resolutions) and will have the restriction of maximum 2 streams.
- Support for on-board analytics (DEPA) for 5th generation camera models.
- For SNC-CH110/CH220: if 4:3 resolutions are required, make sure the camera is set accordingly; and also likewise for 16:9 resolutions. The 2 streams must also stream with the same aspect ratio!

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